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Way be either hereditary or contracted. The former causes exzems, rheumatle pains, scrofula etc. The latter begins with a small pimple, followed by sores in the mouth and throat, which have the appearance of white patches, spots or sores on the body, face or scalp, falling hair and eyebrows, and later on other terriale symptoms, such as paralysis, locomotor staxis, cancerous growths, decayed bones and flesh.

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tial or complete closure of the canal

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**《四天》** 

### HE FUEL WE USE

By FREDERIC J. HASKIN.

carly seventeenth century setAmerica there was no question
to fuel. How to quickest detimber shading his farm
of to clear it away from the
shood of the forts where it afisdian protection, was all he
timic about. He piled great
wide-mouthed chimney and sat
addy glow to plan for the fuhis children, piling on more
those burned out and never
his head to question if the
might some day become de
the twentieth century citizen
me who must solve the probis a question with many phases
has set himself to study out
entific exactitude the quantity
leful within his reach, the
manner in which it can be
ed, its convenience in delivits compactness in storage,
to the location of his home
the choice of wood, anthracite,
so cal, lignite, coke, gas, oil,
and briquettes, manufaccom various materials, while
more thank to clear it away from the
densely forested Southern Appalachian
States to 89 or \$10 in once heavily
timbered regions of the Middle North
west. R. Kellegg, chief of the office
of wood utilization, forest service, in
an address before the Box Manufacture
ers' association at Knaterskill, N. Y.
a few weeks ago, stated that the present amount of wood censumed per
capita is now only about one and a
half cords, against three cords in 1880.

Beginning January 1, 1908, the forest service, in co-operation with the
geological survey, will begin an important series of tests to determine the
relative fuel value of woods found in
the national forests. Experts will compare the fuel value of wood with that of
minerals, taking a portable outfit with
a twenty-five to fifty-horse power steam
boiler to places where wood is the chief
fuel, and get by experiments the
amount of steam developed by different
methods of burning wood. In the
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a few weeks ago, stat

still the stand by of the in remote rural com-iss a so much greater value uses that the question of orest owners how to cut and timber judiciously is becomentous one. It is almost imget exact information as to wood is used each year as many householders cut from lands. The forest service ion with the census bureau server, to tack a census of sever, to tack a census of the in the United States at census of 1910, if not is roughly estimated that cords of firewood are burned intry every year at a value ,000, the price varying from

roved their worth as fuel-he hands of his economical

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much the Burlington can you in the way of cheap a rates with diverse routes pover privileges for New leston and in fact the en-dern country. Jamestown on tickets offer very liberal

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pare the fuel value of wood with that of minerals, taking a portable outfit with a twenty-five to fifty-horse power steam boiler to places where wood is the chief fuel, and get by experiments the amount of steam developed by different methods of burning wood. In the laboratories of the geological survey tests will be made to determine whether firewood composed of knotty tops and limbs of saw timber has not as great, if not greater, fuel value than the trunks. This would be a sensible, saving step in forestry, utilizing waste products that are usually left to decay by ignorant or indifferent lumberers. This test, should it bring the desired results, will mean the saving of many millions of dollars to the country each year, and bring into economical use every portion of the felled tree.

During the Louisiana Purchase exposition at St. Louis the geological survey set up a fuel testing plant by which every natural and artificial fuel available was tried. So helpful were the results that the work was continued there after the fair, and the plant was moved to Norfolk this summer, where experiments devoted especially to Southern and Eastern coals are being made daily. These tests have already demonstrated to the public that a saving of 10 per cent of have already demonstrated to the public that a saving of 10 per cent of the country's coal bill can be made each year through increased efficiency and greater intelligence in the burning of coal—a saving of \$160,000,000. While the coal supply seems practically inexhaustible in the United States—this country producing annually 38 per cent of the whole world's output—the government still wishes to teach its economical use, and the plant at the Jamestown fair will demonstrate this feature as well as others. The United States spent something like \$4,000,000 last year on imported coal, while exporting \$30,000,000 worth. Wise heads are busy devising means whereby that \$4,000,000 may be diverted from foreign to home pockets, by devising better facilities for shipping or by inventing briquettes that will take the place of wood or coal. The imported coal comes to the Pacific coast and to Boston.

The first recorded mining of anthra-cite coal was in Pennsylvania in 1814, when twenty-two tons were taken out. Since then that State has contributed when twenty-two tons were taken out. Since then that State has contributed 1,700,000,000 tons to the homes, factories and furnaces of this country and Canada. The authracite field of that State contains 485 square miles, represents an investment of \$700,000,000, and brings in an annual profit of \$85,000,000 to \$100,000,000. Families in a radius of 150 miles of the mines get anthracite at about \$6.75 a ton, and the average family uses from fifteen to twenty tons a year. To New York and its suburbs over 9,000,000 long tons go annually; to Philadelphia, 4,000,000, and to Baltimore, 2,000,000. Anthracite has also been found in Gunnison county, Colorado, and Santa Fe county, New Mexico. The largest coal mining shaft in America is in Wilkesbarre, Pa., being 1060 feet deep and twelve by fifty-two feet in diameter.

The earliest known production of bituminous coal was in the Richmond basin

minous coal was in the Richmond basin of Virginia in 1822. The Middle States opened their first mines in 1840, and the present State of Washington in 1852. The bituminous area of this country now covers 335,000 square miles. Thirty one States and Territories are now producing coal in great or small quantities and the consumption per capita has increased from twenty-seven hundredths of a ton in 1850, to four tons and seventy-five hundred. 1850, to four tons and seventy-five hundredths in 1906. In the coal fields there are employed over 630,000 men and boys, and the retail value of the mineral is estimated at \$2,000,000.

When natural gas first came into use the flow was so free and the supply seemed practically so inexhaustible that it was sold at a low rate and with-

when natural gas first came into use the flow was so free and the supply seemed practically so inexhaustible that it was sold at a low rate and without measurement. Each householder paid so much a month for a house of so many rooms, and could burn all he wanted. Larger companies soon saw the wastefulness of this plan and introduced meters, and sold the gas by the cubic foot. Its suse for illuminating long preceded its use as fuel, although Pittsburg now uses a half-billion feet every twenty-four hours for both purposes, the Carnegie plants alone using 100,000,000 feet a day. The Appalachian and Middle West States use ninety-eight per cent of the natural gas of the United States. The first gas piped any distance was from the Harvey well in Butler county, Pennsylvania, to a mill near Pittsburg, a distance of seventeen miles. This was in 1875. In 1893 gas came into use as fuel. Now over 1,000,000 domestic fires are supplied with this fuel. Now wood and coal to the value of \$50,000,000 are displaced by natural gas at a less cost, making a saving of \$9,000,000. New York uses the least coal and the most gas per capita of any city.

Following the lend of Europe, the United States is making tests of briquettes of various kinds. The briquettes are of convenient size, of clean surface, and containing the average heatgiving properties of coal. The materials used are widely varied, and in many instances evidence the Nation's recently acquired seconomical trend of mind by utilizing what were formerly waste products. France has for many years been dredging the peat from the river beds and moulding it into bricks for fuel, while in Saxony lignite dust has been very satisfactorily compressed into blocks. France and Germany have made cakes from spent tanner's bark and from exhausted dye woods, while Belgium has more recently tried a compound of eighty pounds of garden mold to twenty of slack coal, over which was poured a pound of common soda or salt in solution to vitrify it, the resulting briquettes having only one advantage o

The West long ago tried many plans for devising fuel when none existed. Trayelers over the trails resorted to grass, greaswood and chaparral; early settlers in the West found twisted hay

ingredients of the bricks, the object being to reduce the entire cost to a point as near zero as possible. Gum arabic waste, rye flour and a waste gluten from starch factories have all proved practicable as binders, while a waterproofing agent of tosia or some kind of gum dissolved in benzine has proved highly satisfactory. Cotton stalks, straw, cane and trash of various kinds have all come under the experimental eye of the briquette maker, and have stood the test more or less well when other materials were not at settlers in the West found twisted hay excellent for "mending" a fire, and cornatalks and corncobs have not proved poor substitutes, although the combustion is rapid. During the coal famine of last winter many farmers of the West burned corn, kernels and all. The United States has left few artificial devices untried. Coal dust, lignific peat and waste products from the mines have been made into substantial briquettes. The binding materials have been as widely varied as the principal



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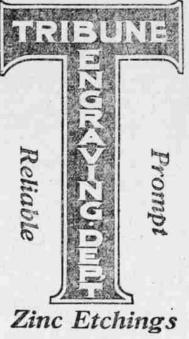
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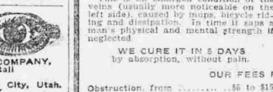
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